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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/021,954	12/13/2001	Kai Narvanen	324-010672-US(PAR)	2696
2512	7590	09/22/2004	EXAMINER	
PERMAN & GREEN 425 POST ROAD FAIRFIELD, CT 06824			DAVIS, CYNTHIA L	
			ART UNIT	PAPER NUMBER
			2665	

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/021,954	Applicant(s) NARVANEN ET AL.	
	Examiner Cynthia L Davis	Art Unit 2665	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) ____ is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 1, 2, 5-7, and 9-11 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by Sayers (6539237).

Regarding claim 1, a telecommunications system which comprises an office network, and operator network, and a LAN between them is disclosed in Sayers, figure 2, elements 22, 29, and 24. The office network comprising at least one mobile system terminal is disclosed in figure 2, element 4. A base transceiver station is disclosed in figure 2, element 27. A radio access gateway controlling the base transceiver station and adapted to have a functional connection with the local area network and configured to adapt the data transmission protocols of said mobile system and local area network to each other is disclosed in column 3, lines 42-48 and figure 2, element 23. A call control entity which is configured to control said radio access gateway through a signaling connection and arranged to detect the establishment of an internal data connection in the office network, which data connection used a data protocol according

to said mobile system is disclosed in column 3, lines 42-48. An interworking function is disclosed in column 18, lines 56-60. A signaling connection from said call control entity being arranged is disclosed in column 10, line 66-column 11, line 2. Which interworking function being configured to adapt data connections according to the data protocol of at least said mobile system and coming from the radio access gateway to the data protocol according to said office network, in response to the call control entity detecting the establishment of an internal data connection in the office network, at least the second party of the data connection being said mobile system terminal, and the operator network is configured to adapt data transmission between the office network and a public land mobile network together is disclosed in column 18, lines 56-60 and figure 2, element 29.

Regarding claim 2, a location database for registering terminals belonging to the office network and for managing location and subscriber information is disclosed in column 5, lines 1-12. The call control entity being configured to authenticate the subscriber of the terminal in response to a data connection establishment request made by the terminal is disclosed in column 5, lines 23-34. Directing the radio access gateway to route the data connection to said interworking function in response to said subscriber of the terminal being registered into the office network is disclosed in column 19, lines 57-column 20, line 55 (if a subscriber is registered, the call is handled in the private network, which includes the interworking functionality). Directing the radio access gateway to route the data connection through the operator network to a switching center of the public land mobile network in response to the fact that the

subscriber is not registered into the office network is disclosed in column 21, lines 8-18 (the call is routed to the P-BTS serving the public mobile station).

Regarding claim 5, the office-specific base transceiver station, radio access gateway, and interworking function being implemented as separate elements of the telecommunications system is disclosed in Sayers, figure 2, elements 27 and 23, column 3, lines 42-48, and column 18, lines 56-60. The radio access gateway being configured to control one or more office-specific base transceiver stations is disclosed in figure 2, element(s) 27.

Regarding claim 6, the data protocol according the mobile system is a GSM protocol and said data protocol of the office network is a H.323 standard is disclosed in column 7, lines 31-33, and column 14, lines 61-63. The radio access gateway configured to adapt data frames according to the GSM protocol in the user data into RTP frames is disclosed in column 22, lines 26-27. The interworking function being configured to disassemble said RTP frames and to adapt the user data into frames according to the data protocol of the office network is disclosed in column 18, lines 56-60 (the interworking function interfaces between the public and office networks, so it must convert the packets from the protocol of one to the protocol of the other if the two are on different protocols, using RTP as an in-between step) and column 7, lines 27-30 (the public network operates on GSM, the private network operates on IP).

Regarding claim 9, a terminal registered into the office network being configures to establish a data connection to said remote access server from outside said office network as a VPN connection is disclosed in column 24, lines 25-48.

Regarding claim 10, a method of establishing a data connection in a telecommunications system which comprises an office network and an operator network and a local area network between them is disclosed in Sayers, figure 2, elements 22, 29, and 24. The office network comprising at least one mobile system terminal (figure 2, element 4), a base transceiver station (figure 2, element 27), a radio access gateway controlling the base transceiver station and adapted to have a function connection with the local area network (figure 2 element 23 and column 3, lines 42-48), a call control entity (column 3, lines 42-48), and an interworking function to which a signaling connection from said call control entity is arranged (column 18, lines 56-60) is disclosed in Sayers. Controlling said radio access gateway by the call control entity through a signaling connection is disclosed in column 10, line 66-column 11, line 2. Detecting the establishment of an internal data connection in the office network by said call control entity, which data connection uses a data protocol according to said mobile system and adapting data connections according to the data protocol of at least said mobile system and coming from the radio access gateway are adapted to the data protocol according to said office network, in response to the fact that the call control entity detects the establishment of an internal data connection in the office network, at least the second party of the data connection being said mobile system terminal is disclosed in column 18, lines 56-60. Adapting the data transmission between the office network and a public land mobile network together in said operator network is disclosed in figure 2, element 29 (it interfaces between the office and public networks).

Regarding claim 11, the system comprising a location database for registering terminals belonging to the office network and for managing location and subscriber information is disclosed in column 5, lines 1-12. Authenticating the subscriber of the terminal in the call control entity in response to the data connection establishment request made by the terminal is disclosed in column 5, lines 24-32. Directing the radio access gateway to route the data connection to said interworking function in response to the fact that said subscriber of the terminal is registered into the office network is disclosed in column 19, lines 57-column 20, line 55 (if a subscriber is registered, the call is handled in the private network, which includes the interworking functionality). Directing the radio access gateway to route the data connection through the operator network to a switching center of the public land mobile network in response to the fact that the subscriber of the terminal is not registered into the office network is disclosed in column 21, lines 8-18 (the call is routed to the P-BTS serving the public mobile station).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

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2. Ascertaining the differences between the prior art and the claims at issue.
 3. Resolving the level of ordinary skill in the pertinent art.
 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
3. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sayers.

Regarding claim 3, the system of claim 1 is disclosed in Sayers. Claim 3 further specifies the office based transceiver station, radio access gateway, and interworking function are implemented as one element of the telecommunications system, which is not explicitly disclosed in Sayers. However, the system of Sayers has all 3 of these functionalities (figure 2, elements 27 and 23, column 3, lines 42-48, and column 18, lines 56-60). It would have been obvious to one skilled in the art at the time of the invention to put all these functionalities into one element. The motivation would be to consolidate multiple functionalities into one piece of hardware.

Regarding claim 4, the system of claim 1 is disclosed in Sayers. Claim 4 further specifies the radio access gateway and interworking function being implemented as one element of the telecommunications system, which is not explicitly stated in Sayers. However, Sayers does have both of these functionalities (figure 2, element 23, column 3, lines 42-48, and column 18, lines 56-60). It would have been obvious to one skilled in the art at the time of the invention to put these two functionalities into one element. The motivation would be to consolidate multiple functionalities into one piece of hardware. The element being configured to control one or more office-specific base transceiver stations is disclosed in figure 2, element(s) 27 of Sayers.

4. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sayers in view of Gossman. The method of claim 7 is disclosed in Sayers. Claim 8 further specifies a terminal registered into the office network being configured to establish a data connection to said remote access server from outside said office network as a dial-up connection, which is missing from Sayers. However, Gossman discloses, in column 6, lines 20-31, discloses dialing into a private network, here, one belonging to an ISP. It would have been obvious to one skilled in the art at the time of the invention to allow a registered terminal to dial into the private network. The motivation would be to give the registered terminal a widely available method of connecting to the network.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia L Davis whose telephone number is (571) 272-3117. The examiner can normally be reached on 8:30 to 6, Monday to Thursday.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (703) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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